

ABSTRACT

This invention provides efficient HCV replicase complexes comprising novel RNA template and primer pair. Assay systems are also provided, which use such complexes, for  
5 detecting replicase activity, quantitatively studying the kinetics and mechanism of HCV  
NS5B-catalyzed nucleotide incorporation, and identifying inhibitors of HCV replicase. The  
assay systems use small and well-defined synthetic RNAs which allow efficient assembly of  
all catalytic components in the quaternary complex for HCV NS5B-directed RNA replication.  
Specific template-primer requirements for efficient RNA synthesis by HCV NS5B replicase  
10 are provided for use in assay systems.

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